

CALIFORNIA ENERGY COMMISSION

www.energy.ca.gov/efficiency/brightschoools

Call: (916) 654-4147

APPLY TODAY

**FOR
TECHNICAL
ASSISTANCE**

All public or non-profit K-12
schools are eligible for assistance

Bright Schools Program

RENOVATION



NEW CONSTRUCTION



ENERGY AUDITS



ENERGY EFFICIENCY

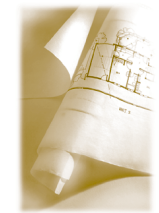


**LOWER ENERGY
COSTS AND
IMPROVED
LEARNING
ENVIRONMENTS**

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Revised October 2004

THE BRIGHT SCHOOLS PROGRAM

ENERGY EFFICIENT SCHOOLS FOR A BRIGHTER FUTURE



MOST SCHOOLS SPEND MORE MONEY ON ENERGY EACH YEAR THAN ON SCHOOL SUPPLIES

You can change that by lowering your school's energy bills using readily available, energy efficient lighting and HVAC systems. Installing energy efficient equipment can reduce annual maintenance costs, conserve finite resources, and improve indoor air quality. Administrators confirm that our recommendations and assistance led to better learning environments. Savings from these systems are proven — typically reducing annual utility costs by an average of 20 percent. All of your district's programs can share these savings, thereby benefiting the students!

The Bright Schools Program can help



Whether you are renovating an existing school, building a new one, or want to save on energy bills, the Bright Schools Program can help.

This California Energy Commission program offers specific services to help you become more energy wise, such as identifying cost-effective energy efficient projects to meet your needs and providing design and follow-on implementation assistance for installing your projects.

Existing Schools

The Bright Schools Program can help you get the most from your renovation and maintenance investments. With an evaluation of your maintenance plans or an energy audit of your facilities, we can identify energy-related projects that should be implemented immediately as part of a comprehensive Bright Schools energy package. School organizations planning major renovations can also benefit from our technical assistance services during the planning and design processes.



FOR EXISTING SCHOOLS THE BRIGHT SCHOOLS PROGRAM CAN:

- Conduct energy audits and feasibility studies
- Review existing proposals and designs
- Develop equipment performance specifications
- Assist with contractor selection
- Review equipment bid specifications
- Review commissioning plans





**FOR NEW SCHOOL CONSTRUCTION,
THE BRIGHT SCHOOLS PROGRAM
CAN:**

Provide design consultation

Identify cost-effective
energy-saving measures

Compare different
technologies

Provide equipment
specification consultation

Develop computer simulation
models of your planned project

Help select design professionals with
energy efficiency expertise

Review schematics and
construction plans

Assist with commissioning

New School Construction

Schools built with energy efficient designs will cost less to operate, offering continuous savings and leaving more money for education. Many new schools being built today just barely meet current California Title 24 energy efficiency standards and could save more energy. However, the energy efficiency of many of these designs could be improved with little or no additional expense. The Bright Schools Program provides technical assistance to your district's architectural and engineering team early in the design phase, before the plans are finalized. The savings start accumulating from the first day of operation!



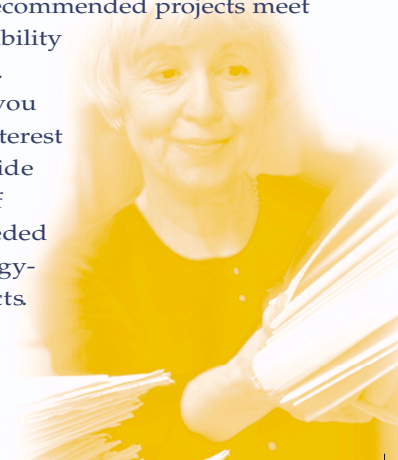
**Is there a cost to participate
in the Bright Schools
Program?**



The program has experienced engineering and architectural consultants who provide technical assistance. We provide up to \$20,000 of our consultants' cost. For most applicants, this could cover **all the cost** for analyzing multiple facilities with some cost sharing from you. Once the projects are identified by the Bright Schools Program, low interest rate loans are available from the Energy Commission to finance the recommendations.

**The Bright Schools Program
collaborates with key
state programs**

Our staff works closely with the Office of Public School Construction, the Division of the State Architect, and the California Department of Education to ensure that recommended projects meet program eligibility requirements. We can help you secure low-interest loans to provide some or all of the funds needed for your energy-related projects.



THE BRIGHT SCHOOLS PROGRAM

THE APPLICATION PROCESS

HOW DO I APPLY FOR TECHNICAL ASSISTANCE?

- 1. Complete the enclosed application.**
NOTE: On the applications, the “applicant” refers to the legal name of your school district or agency.
- 2. Enclose supplemental information.**
Provide copies of any relevant information on your project, such as past energy studies and preliminary plans or drawings. You must provide the latest 12 months of utility bills for each account pertaining to the school(s) for which you are requesting technical assistance. If fuels are not delivered on a regular schedule (propane, heating oil, etc.), please send invoices for the past two or three years. Also send in your sitemap such as 1-As or a fire evacuation map.
- 3. Governing Board Resolution.**
We must have a resolution from your governing board before your organization receives technical assistance.

- 4. Mail your application and supplemental information to:**
California Energy Commission
Bright Schools Program
Public Programs Office
1516 Ninth Street, MS 42
Sacramento, CA 95814-5512

HOW WILL YOU EVALUATE MY APPLICATION?

The application must indicate how your district plans to execute and fund recommended projects. Also, your Governing Board Resolution must demonstrate a strong commitment to implementing the Bright Schools Program’s energy efficiency recommendations.



All publicly funded K–12 school districts and non-profit K–12 schools are eligible for assistance from the Bright Schools Program.

WHEN IS MY APPLICATION DUE?

The Bright Schools Program is continuously open with no final filing date. Program funds are limited, however, so filing promptly will increase your chances of receiving assistance. Applications will be accepted on a first-come, first-served basis.

For more information,
look at the
**Bright Schools Program
Web Site at**
[www.energy.ca.gov/efficiency/
brightschools](http://www.energy.ca.gov/efficiency/brightschoools)
or call the California Energy
Commission at (916) 654-4147.

THE BRIGHT SCHOOLS PROGRAM

THE PROCESS

APPLICATION

You provide the required information for the assistance you want.



EVALUATION

Energy Commission staff reviews your application and verifies your commitment to implementing Bright Schools Program recommendations.

SITE VISIT (OPTIONAL)

Energy Commission staff meets with your district's project team to discuss the project, review plans, and tour your facilities.

SCOPE OF WORK

Based on the application and site visit, Energy Commission staff determines if the Bright Schools Program can provide technical assistance. Energy Commission staff develops a scope of work detailing the technical assistance to be provided and discusses this information with you.

TECHNICAL ASSISTANCE SERVICES

The Bright Schools Program provides the desired services identified in the scope of work.

BRIGHT SCHOOLS PROGRAM SERVICES AGREEMENT

If your school organization will be sharing the technical assistance cost with us, a services agreement will be developed and signed by both parties.

PROJECT REVIEW

Your school organization reviews and comments on the Bright Schools Program technical reports.

PROJECT COMPLETE

Energy Commission staff will be available for consultation after the project is complete. This is the start of lower annual energy costs and improved facilities.

FINANCING SECURED (OPTIONAL)

Your school district secures financing to implement and complete projects — with State, private, or internal financing or a combination of funds. Many projects qualify for loans from the Energy Commission.

INSTALLATION/CONSTRUCTION ASSISTANCE (IF REQUESTED)

The Bright Schools Program consultants can help prepare preliminary equipment bid specifications, select contractors, review proposals and designs and/or assist your consultants and contractors with project commissioning. During construction, Energy Commission staff can be available for consultation.



How a School District Benefited from the Bright Schools Program

Antelope Valley High School District Is Modernizing Schools to Improve Facilities and Reduce Operating Costs

To reduce energy costs throughout the district, Antelope Valley Union High School District established a two-part plan. The first part involved modernizing three of its schools (using State funds), with energy efficiency as a key goal. The second part focused on improving the energy efficiency of all its high schools. By applying to the Bright Schools Program, Antelope Valley received comprehensive energy audits for eight schools, plus a review of its modernization plans. In addition, the program identified energy efficient lighting projects for each school as well as heating, ventilation and air-conditioning projects for older portable classrooms.

To fund projects in those schools not covered under the modernization plan, the district obtained a \$2 million loan through the Energy Commission's low interest loan program. Once all projects are installed and operating, the district will cut its annual energy costs by \$303,045. The district will recover its project investment of \$2 million in about 6.5 years, for an eight percent return on investment. The district made a commitment that all schools will be energy efficient. The Bright Schools Program helped them ensure that no school was left behind.

Energy Saving Projects Identified by the Bright Schools Program and Funded with a State Loan

| ANTELOPE VALLEY HIGH SCHOOL DISTRICT PROJECT | ANNUAL ENERGY COST SAVINGS | PROJECT COST |
|---|-------------------------------|-----------------|
| Lighting Improvements and Controls | \$218,723 | \$1,147,863 |
| HVAC Equipment Replacement | \$84,322 | \$852,137 |
| TOTAL | \$303,045 | \$2,000,000 |
| Energy Commission loan | \$2,000,000 | |
| PROJECT ECONOMICS | | |
| Simple Payback (Project Cost/Savings) | 6.6 years | |
| Internal Rate of Return | 8% | |



Arnold Schwarzenegger
Governor



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